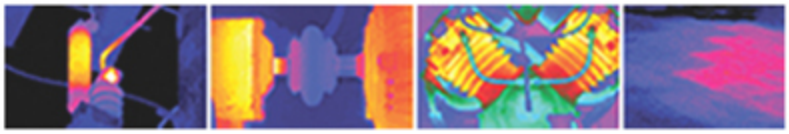
Infraspection Institute Newsletter



News and Information for Professional Thermographers

Volume 14 Issue 10 - October 2025

Director's Message

We've all heard the phrase regarding the horse and the cart. When it comes to thermography, many people put the cart in front of the proverbial horse by buying infrared equipment before obtaining proper training.

Purchasing the correct imager is a challenge for many reasons: initial purchase price can be costly, no imager is capable of performing all applications, imager performance varies widely, and available specifications are frequently exaggerated.

Further compounding this challenge is many manufacturers offer "free training courses" as sales incentives to purchasers of new equipment. Frequently, these free courses are taught by inexperienced/unqualified instructors, are introductory in nature, and are designed as operator courses for the subject equipment thereby omitting important theory or applications. Because these courses are taught after equipment is delivered, inexperienced purchasers lack the knowledge required to make an informed decision when selecting new equipment.

In order to properly select and specify infrared equipment, buyers should put the horse before the cart by receiving quality certification training from an independent institute prior to equipment purchase. For new users, training should include infrared theory and heat transfer concepts, equipment selection and operation, image capture and analysis, standards compliance, application-specific inspection techniques, documentation of findings, and temperature measurement techniques.

Become a Certified sUAS Thermographer

Infraspection Institute's Level I sUAS Thermography training course is a dedicated certification course designed specifically for thermographers who use drone-based thermal imagers. Drawing upon content from our Level I and Level II Certified Infrared Thermographer® courses, Level I sUAS Thermography is designed specifically for operators of Small, Unmanned Aircraft Systems.

Designed with the professional drone operator in mind, sUAS

Upcoming Courses

Online Distance Learning

Level I Certified Infrared Thermographer®

- Oct 6 - 10 San Diego
- Oct 13 - 16 Brisbane
- Oct 13 - 14 Brisbane *
- Oct 20 - 23 West Windsor
- Oct 20 - 24 Santa Cruz
- Oct 20 - 23 Rosharon
- Oct 20 - 23 Edmonton
- Oct 27 - 30 Saskatoon
- Nov 3 - 6 Winnipeg
- Nov 10 - 13 Toronto
- Nov 10 - 14 Kuala Lumpur
- Nov 17 - 21 St. George
- Nov 17 - 20 Rosharon
- Nov 17 - 20 Ottawa
- Nov 24 - 28 Quezon City
- Nov 24 - 27 Moncton
- Dec 1 - 5 Tempe
- Dec 1 - 4 Melbourne
- Dec 1 - 4 St. John's
- Dec 1 - 5 Trinidad
- Dec 3 - 4 Melbourne *
- Dec 8 - 11 West Windsor
- Dec 15 - 18 Calgary
- Dec 15 - 18 Rosharon

* Flexible Learning

Thermography covers infrared theory, heat transfer concepts, equipment operation, and temperature measurement using drone-based thermal imaging equipment. It also covers several applications including infrared inspections of electrical systems, mechanical systems, photovoltaic installations, underground piping, building envelopes, low-slope roofing systems, and environmental studies. The course is available through Infraspection Institute's Distance Learning program.

Students who successfully complete the course receive an sUAS Thermographer certification from Infraspection Institute which will qualify them to further their training via Infraspection Institute's Level II and Level III thermography courses.

More Information

Free Infrared Training Courses

For a limited time, Infraspection Institute is offering two online training courses at no cost. These courses are available through SuccessIRies™ – a series of web-based short courses for thermographers and inspection professionals. SuccessIRies™ courses are available 24/7 via an internet connection and cover a wide variety of topics.

Typically 30 to 60 minutes in length, SuccessIRies™ are narrated short courses that are the perfect way to keep abreast of the latest developments in the rapidly evolving field of thermography. SuccessIRies™ also meet continuing education requirements for professional inspectors.

Normally priced at $79, SuccessIRies™ 101, Infrared Thermography – What's Hot in PdM and SuccessIRies™ 102,Infrared Inspections for Home & Building Inspectors are currently being offered for free. These courses provide an introduction to infrared thermography and how it is applied to a wide variety of applications. Both courses provide an excellent introduction to thermography.

More Information

How to Calculate Transmittance

Windows are semi-transparent materials placed between an object and an infrared instrument to separate conditioned from unconditioned spaces. When measuring temperatures through a window, it is imperative to know and enter the transmittance value of the window into your radiometer's computer to help ensure temperature measurement accuracy.

Equipment Required:

- Calibrated imaging radiometer with a computer that allows user to input Reflected Temperature and Emittance values.
- Blackbody simulator with E ≥ 0.95 heated close to temperature of target to be measured.

Level II Certified Infrared Thermographer®

- Oct 20 -24 Quezon City
- Oct 27 - 30 Melbourne
- Nov 17 - 21 San Jose
- Nov 24 - 26 Kuala Lumpur
- Dec 8 - 12 Trinidad

Level III Certified Infrared Thermographer®

- Nov 10 - 12 Melbourne
- Dec 15 - 17 Trinidad

Full 2025 - 2026 Schedule

Upcoming Conferences

Infraspection Institute invite you to see us at the following upcoming conferences. Be sure to stop by and say Hello!

SMRP Conference

October 6 - 9, 2025
Fort Worth, TX

IR/INFO Conference

February 1 - 4, 2026
Orlando, FL

NETA PowerTest Conference

March 2 - 6, 2026
Nashville, TN

Vibration Institute

August 5 - 7, 2026
Fort Worth, TX

Links of Interest

IRINFO.ORG

- Window that is semitransparent in the waveband of the imaging radiometer.

Method:

1. Place imaging radiometer at desired distance from blackbody simulator
2. Aim and focus imager on blackbody simulator. Place crosshair on center of blackbody simulator
3. Set imager's E control to 1.0
4. Measure and compensate for Reflected Temperature
5. Measure and note apparent temperature of blackbody simulator
6. Place window directly in front of imaging radiometer's lens
7. Without moving imager, adjust E control until observed temperature matches value obtained in Step 5 above.

The displayed E value is the transmittance percentage for this window with the subject imaging radiometer. For greater accuracy, repeat above steps a minimum of three times and average results.

The above procedure is described in detail in the Standard for Measuring and Compensating for Transmittance of an Attenuating Medium Using Infrared Imaging Radiometers.

More Information

Attend IR/INFO 2026 and Get Discounted Training

In celebration of IR/INFO's 36th anniversary, Infraspection Institute are pleased to announce several special offers combining the world's most respected infrared training and certification program with the industry's original technical conference.

Several packages are available featuring discounts on Level I, II, and III Infraspection Institute Certified Infrared Thermographer® training courses and TI Reporter™ software. Discounted group rates are available for four or more persons.

More Information

Forget the Great Pumpkin

Become an Infraspection Institute Master Thermographer®

TI-Reporter.com

Thermographer Directory

NORMI.TV

A-Rent